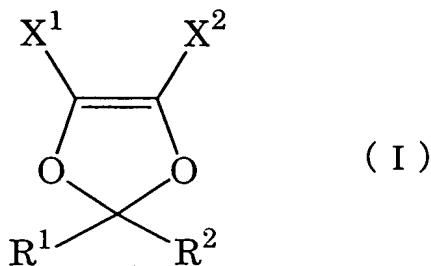


ABSTRACT

This invention provides a cyclic ether copolymer such as a cyclic ether copolymer excellent in solubility in 5 solvents and easy to form uniform thin films therefrom. The present invention relates to a cyclic ether copolymer obtained from a 1,3-dioxole ring structure-containing compound represented by the following general formula (I) and an ethylenically unsaturated monomer:

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(wherein R¹ and R² are the same or different and each represents F, H, Cl or a perfluoroalkyl group containing 1 15 to 5 carbon atoms and X¹ and X² are the same or different and each represents F, H, Cl or -OR³, and R³ represents a perfluoroalkyl group containing 1 to 5 carbon atoms, provided that at least one of R¹ and R² is F or a perfluoroalkyl group containing 1 to 5 carbon atoms), which 20 compolymer has a glass transition point of 100 to 135°C and an intrinsic viscosity of 0.01 to 0.4 dl/g as determined at 35°C in perfluoro-2-butyltetrahydrofuran.